

APPENDIX P

Baseline Intakes for the EPA Default and Box Model Scenarios by Area and Age Level

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The tables and figures in this appendix show lead intake rates for children aged 1 to 4 years, 5 to 6 years, and 0 to 1 years (also 6 to 7 years). These are based on the default values provided in the IEUBK Model for total soil and dust intake. The rates provided for air, water, and market basket intakes are EPA default values that are used for all age groups.

Table P-1a Baseline Intakes for Child Ingestion of Soils (Ages 1-4) - Default Scenario

One to Four Year Olds

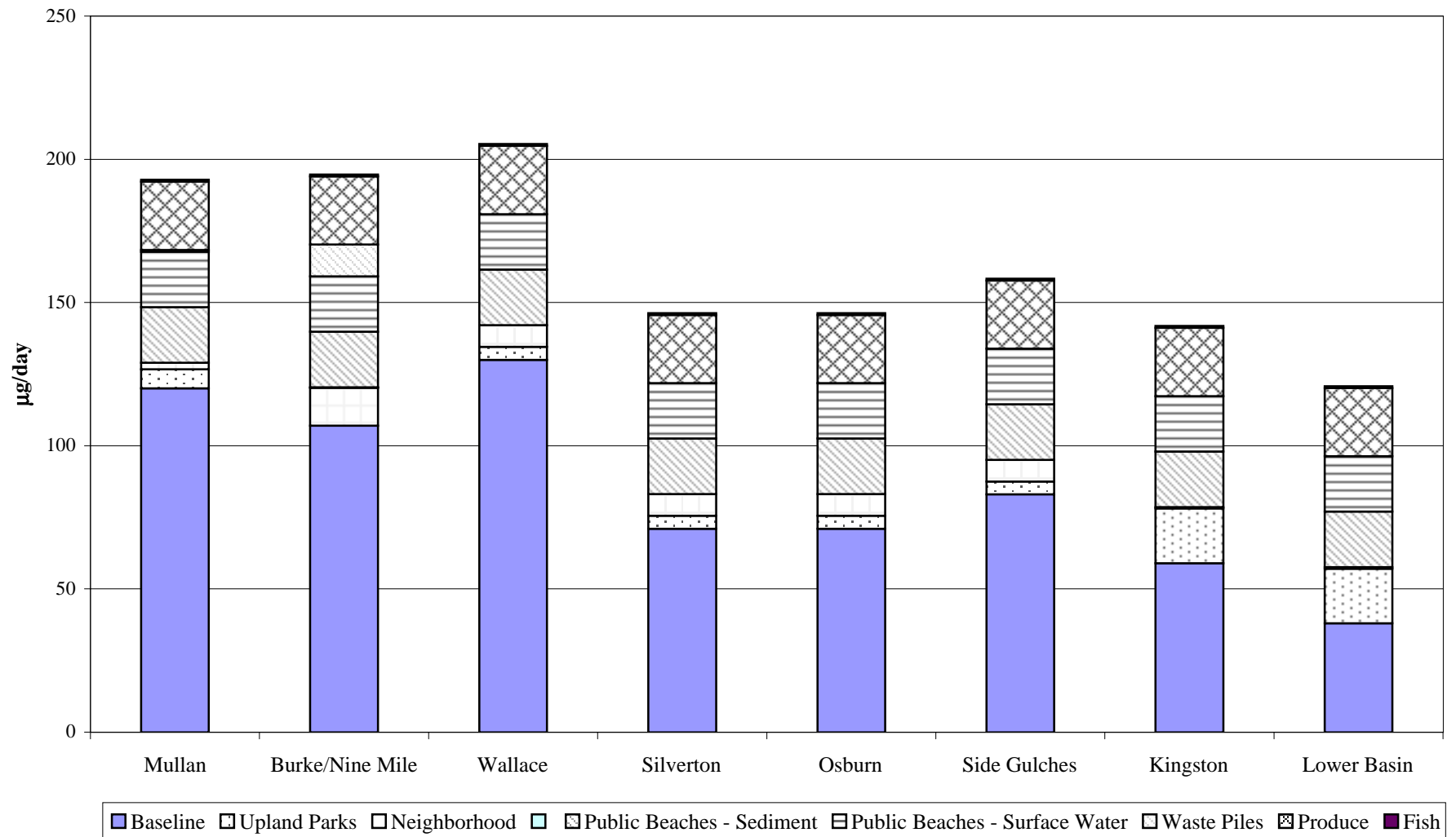
Area	Community Average Soil Conc. (mg/kg)	Soil Intake (µg/day)	Community Average Dust Conc. (mg/kg)	Dust Intake (µg/day)	Air Intake (µg/day)	Water Intake (µg/day)	Market Basket Intake (µg/day)	Total Intake (µg/day)
Mullan	628	38	985	73	0.5	2	6	120
Burke/Nine Mile	548	33	879	65	0.5	2	6	107
Wallace	771	47	1004	75	0.5	2	6	130
Silverton	352	21	557	41	0.5	2	6	71
Osburn	418	25	493	37	0.5	2	6	71
Side Gulches	373	23	695	52	0.5	2	6	83
Kingston	257	16	466	35	0.5	2	6	59
Lower Basin	110	7	301	22	0.5	2	6	38

Table P-1b Baseline Intakes for Child Ingestion of Soils (Ages 1-4) - 40:30:30 Scenario

One to Four Year Olds

Area	Community Average Soil Conc. (mg/kg)	Soil Intake (µg/day)	Community Average Dust Conc. (mg/kg)	Dust Intake (µg/day)	Air Intake (µg/day)	Water Intake (µg/day)	Market Basket Intake (µg/day)	Total Intake (µg/day)
Mullan	628	51	985	53	0.5	2	6	113
Burke/Nine Mile	548	44	879	47	0.5	2	6	101
Wallace	771	62	1004	54	0.5	2	6	125
Silverton	352	29	557	30	0.5	2	6	67
Osburn	418	34	493	27	0.5	2	6	69
Side Gulches	373	30	695	38	0.5	2	6	76
Kingston	257	21	466	25	0.5	2	6	55
Lower Basin	110	9	301	16	0.5	2	6	34

**Figure P-1a Summary of Children's Recreational Potential Incremental Lead Intakes
Ages 1-4 Years (CT)**



**Figure P-1b Summary of Children's Recreational Potential Incremental Lead Intakes
Ages 1-4 yrs. (RME)**

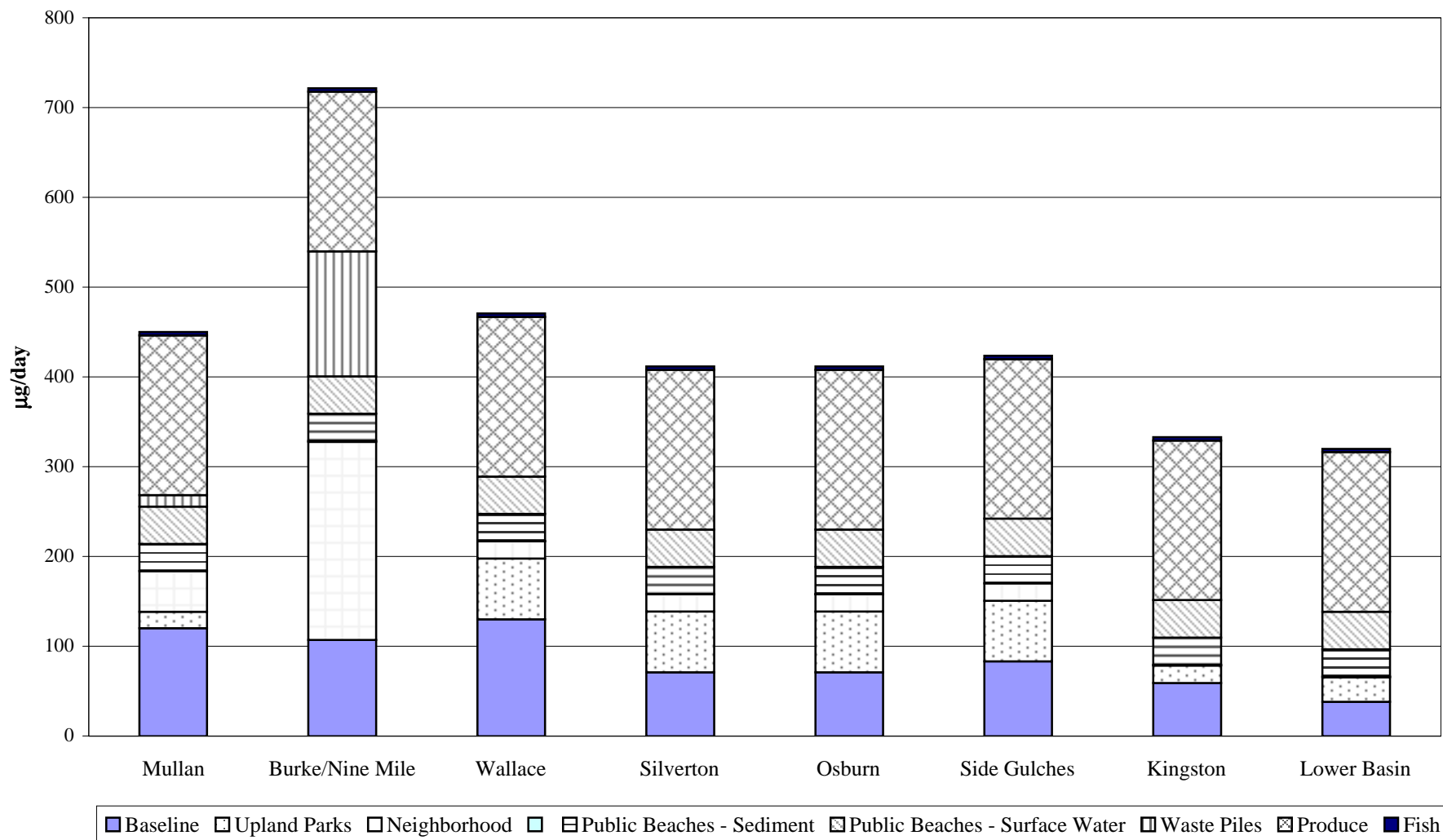


Table P-2a Baseline Intakes for Child Ingestion of Soils (Ages 5-6) - Default Scenario

Five to Six Year Olds

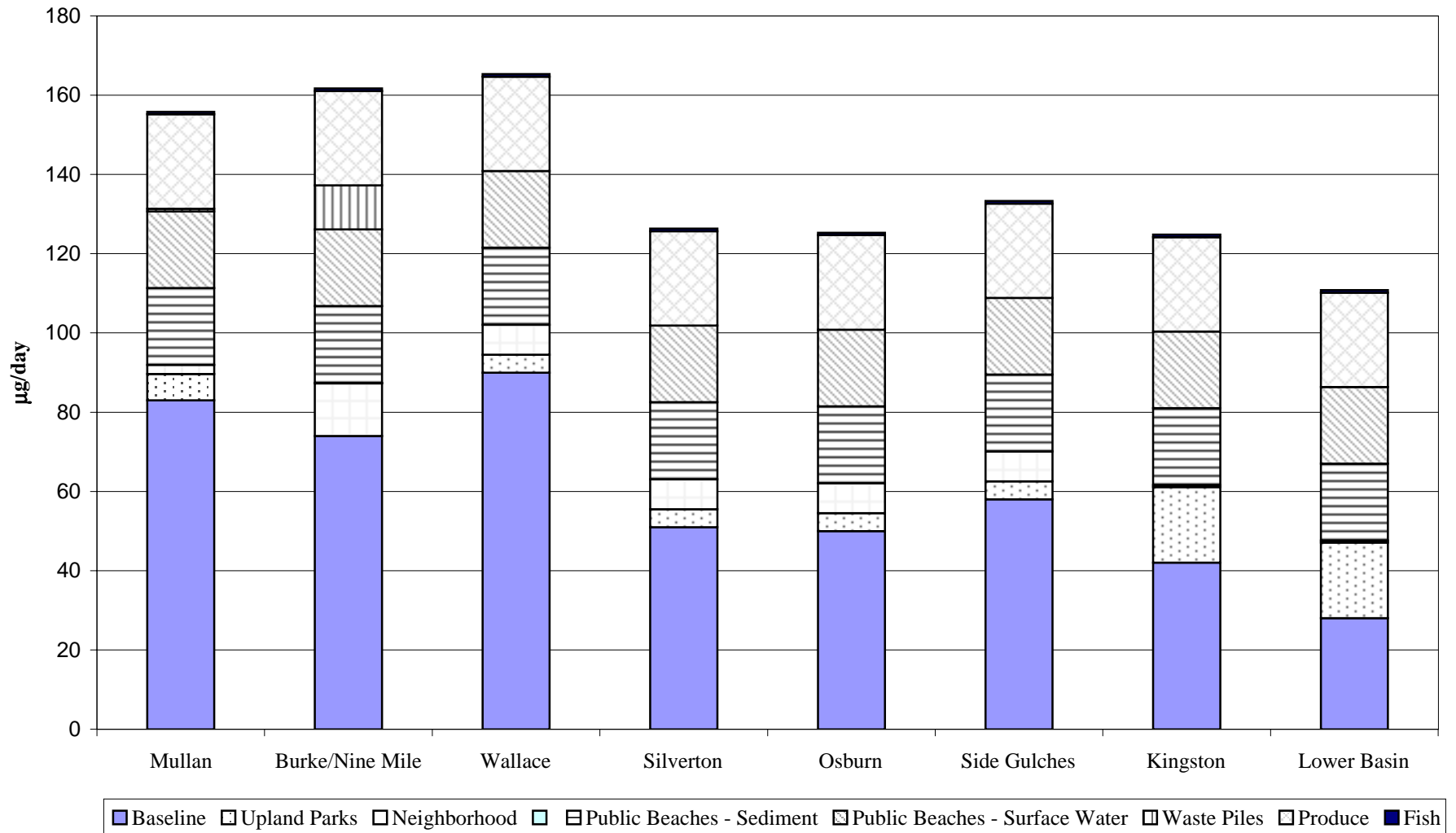
Area	Community Average Soil Conc. (mg/kg)	Soil Intake (µg/day)	Community Average Dust Conc. (mg/kg)	Dust Intake (µg/day)	Air Intake (µg/day)	Water Intake (µg/day)	Market Basket Intake (µg/day)	Total Intake (µg/day)
Mullan	628	25	985	49	0.5	2	6	83
Burke/Nine Mile	548	22	879	44	0.5	2	6	74
Wallace	771	31	1004	50	0.5	2	6	90
Silverton	352	14	557	28	0.5	2	6	51
Osburn	418	17	493	24	0.5	2	6	50
Side Gulches	373	15	695	34	0.5	2	6	58
Kingston	257	10	466	23	0.5	2	6	42
Lower Basin	110	4	301	15	0.5	2	6	28

Table P-2b Baseline Intakes for Child Ingestion of Soils (Ages 5-6) - 40:30:30 Scenario

Five to Six Year Olds

Area	Community Average Soil Conc. (mg/kg)	Soil Intake (µg/day)	Community Average Dust Conc. (mg/kg)	Dust Intake (µg/day)	Air Intake (µg/day)	Water Intake (µg/day)	Market Basket Intake (µg/day)	Total Intake (µg/day)
Mullan	628	34	985	35	0.5	2	6	78
Burke/Nine Mile	548	30	879	32	0.5	2	6	70
Wallace	771	42	1004	36	0.5	2	6	87
Silverton	352	19	557	20	0.5	2	6	48
Osburn	418	23	493	18	0.5	2	6	49
Side Gulches	373	20	695	25	0.5	2	6	54
Kingston	257	14	466	17	0.5	2	6	39
Lower Basin	110	6	301	11	0.5	2	6	25

Figure P-2a Summary of Children's Recreational Potential Incremental Lead Intakes for Ages 5-6 (CT)



**Figure P-2b Summary of Children's Recreational Potential Incremental Lead Intakes for
Ages 5-6 (RME)**

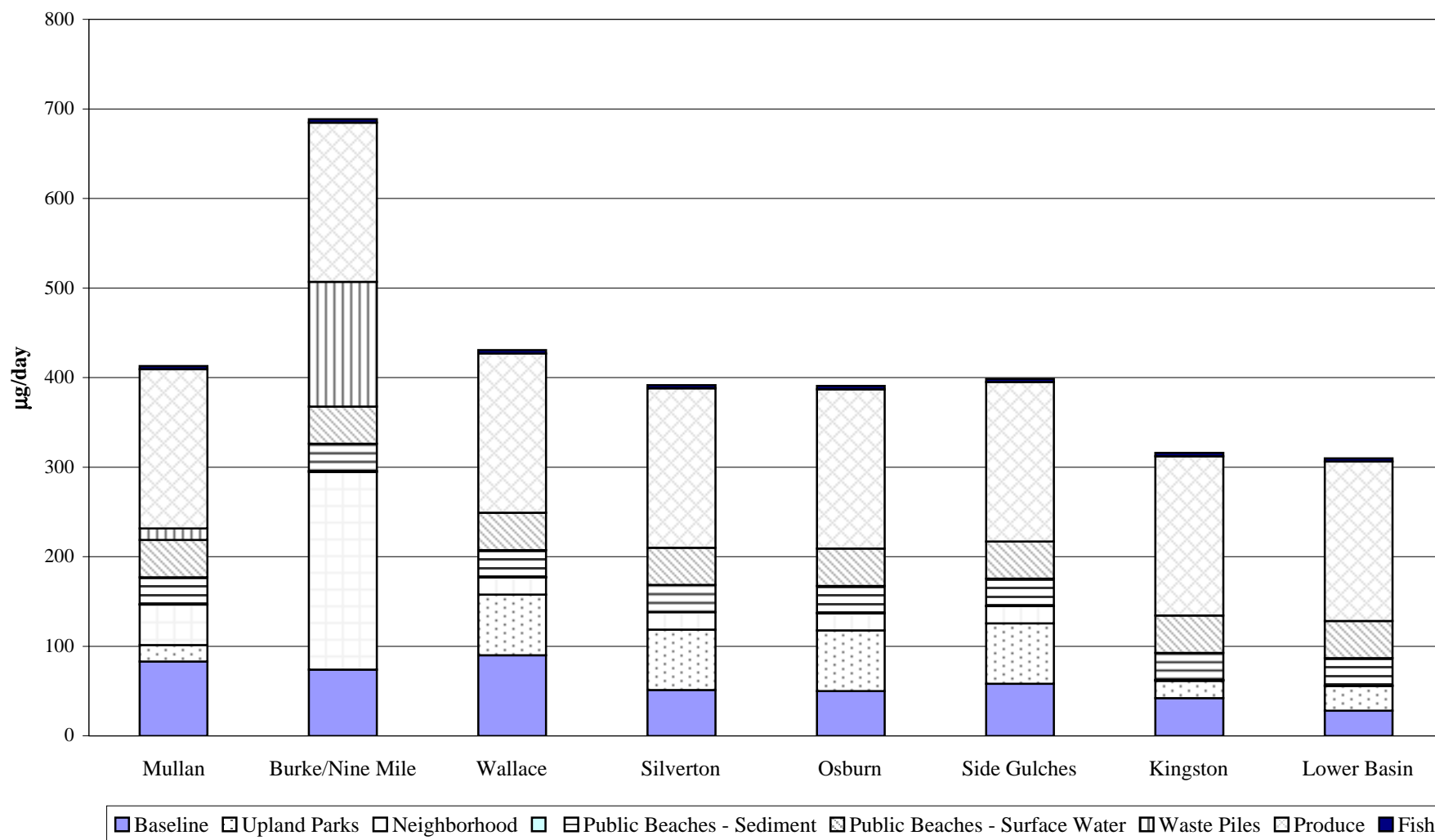


Table P-3a Baseline Intakes for Child Ingestion of Soils (Ages 0-1 and Ages 6-7) - Default Scenario

Zero to One Year Olds and Six to Seven Year Olds

Area	Community Average Soil Conc. (mg/kg)	Soil Intake (µg/day)	Community Average Dust Conc. (mg/kg)	Dust Intake µg/day)	Air Intake (µg/d)	Water Intake (µg/day)	Market Basket Intake (µg/day)	Total Intake (µg/day)
Mullan	628	24	985	46	0.5	2	6	79
Burke/Nine Mile	548	21	879	41	0.5	2	6	71
Wallace	771	30	1004	47	0.5	2	6	85
Silverton	352	13	557	26	0.5	2	6	48
Osburn	418	16	493	23	0.5	2	6	48
Side Gulches	373	14	695	32	0.5	2	6	55
Kingston	257	10	466	22	0.5	2	6	40
Lower Basin	110	4	301	14	0.5	2	6	27

* Note: The ingestion rate for 0-1 year olds and 6-7 year olds is the same, 0.085 gms/day.

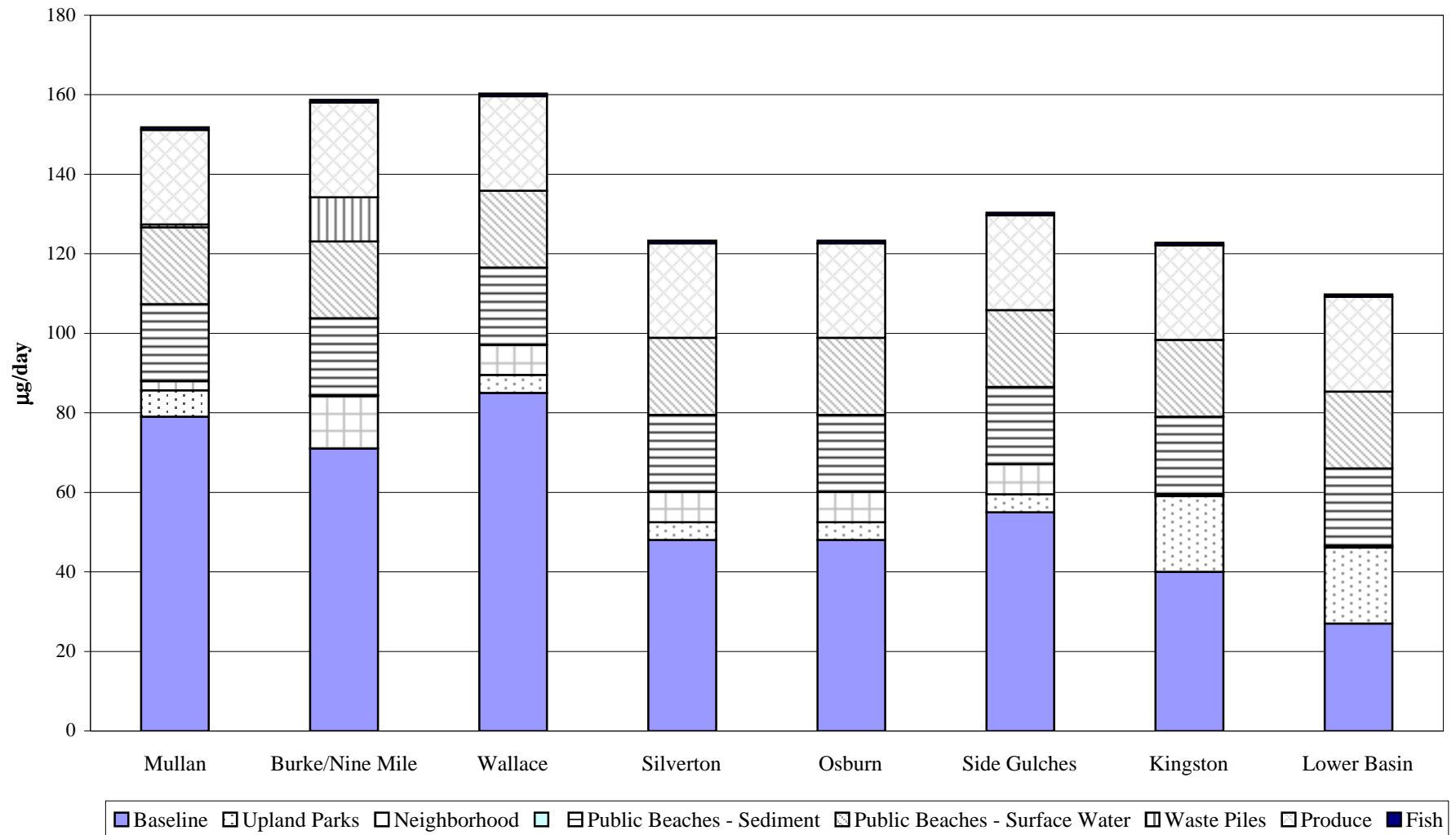
Table P-3b Baseline Intakes for Child Ingestion of Soils (Ages 0-1 and Ages 6-7) - 40:30:30 Scenario

Zero to One Year Olds and Six to Seven Year Olds

Area	Community Average Soil Conc. (mg/kg)	Soil Intake (µg/day)	Community Average Dust Conc. (mg/kg)	Dust Intake µg/day)	Air Intake (µg/d)	Water Intake (µg/day)	Market Basket Intake (µg/day)	Total Intake (µg/day)
Mullan	628	32	985	33	0.5	2	6	74
Burke/Nine Mile	548	28	879	30	0.5	2	6	67
Wallace	771	39	1004	34	0.5	2	6	82
Silverton	352	18	557	19	0.5	2	6	46
Osburn	418	21	493	17	0.5	2	6	47
Side Gulches	373	19	695	24	0.5	2	6	51
Kingston	257	13	466	16	0.5	2	6	38
Lower Basin	110	6	301	10	0.5	2	6	25

* Note: The ingestion rate for 0-1 year olds and 6-7 year olds is the same, 0.085 gms/day.

**Figure P-3a Summary of Children's Recreational Potential Incremental Lead Intakes
Ages 0-1 and 6-7 (CT)**



**Figure P-3b Summary of Children's Recreational Potential Incremental Lead Intakes
Ages 0-1 and 6-7 (RME)**

